

# Pressure Transmitter

## MODEL X43



Viatran's Model 243/343 is the result of customer requests for a pressure transducer that can be used for high volume, rugged applications while still meeting budgetary constraints.

### FEATURES

- Low cost
- Small size
- Environmentally sealed
- Vibration resistant
- Shock resistant
- Long service life (100K cycles)
- All-welded design

### TYPICAL APPLICATIONS

- High volume usage
- Off-road vehicles
- Hydraulic systems
- Pumps and compressors
- General industrial

Approval Options Available  
Contact Viatran for details.

## A LOW COST, HIGH PERFORMANCE OEM SOLUTION

### HIGH VOLUME USAGE

Go ahead, use it. Again and again and again. The X43 is designed to run for 100,000 cycles. But it will run for many more. It's shock resistant. Vibration resistant.

### OUTPUTS THAT YOU NEED

The Model 343 has a 4 to 20 mA output. The Model 243 has a 0-5 VDC output or can be modified to an output of 0 to 10 VDC.

### SMALL SIZE, BIG PERFORMANCE

The small size of the "43" Series makes it ideal for restricted space applications. But the all-welded stainless steel construction is ideal for demanding industrial or heavy-duty applications. It is environmentally sealed

with no adjustment controls, providing a sealed transducer that prevents contamination from the environment.

### ENHANCED DURABILITY

The diaphragm, machined from corrosion resistant billet steel, is free from oil fills, isolation diaphragms or silicon sensing chips, enhancing the durability. Our standards are as high as yours

When your application requires a combination of rugged package, large quantity and cost effective pricing, Viatran's "43" Series offers you the same high quality standards that you build into your equipment.

For product availability, or to order, call 1-800-688-0030, ext 512



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An ISO 9001:2000 Certified Company

### SPECIFICATIONS

#### PERFORMANCE

Full Scale Pressure Range (FSPR)	0-100, 0-300, 400, 500, 750, 1K, 1500, 2K, 3K, 4K, 5K, 7500, 10K, 15K, PSIG, PSIA
Non-linearity (Best Fit Straight Line)	$\leq \pm 0.5\%$ FSO
Hysteresis and repeatability	$\leq \pm 0.3\%$ FSO
Full Scale Output (FSO)	
Model 243	5 VDC $\pm 3\%$ @ 70°F
Model 343	16 mA $\pm 3\%$ @ 70°F
Long Term Stability	$\leq \pm 0.5\%$ FSO per 6 months
Compensated Temperature Range	70°F to 170°F
Maximum Operating Temperature	200°F Process
Minimum Operating Temperature	-20°F
Non-Operating Temperature Range	-60°F to +250°F
Thermal Effect on Zero	$\leq \pm 3\%$ FSO per 100°F typical
Thermal Effect on Span	$\leq \pm 2\%$ FSO per 100°F typical

#### ELECTRICAL

Supply Voltage	10 to 30 VDC
Power Supply Regulation	
Model 243	$\leq \pm 0.05\%$ FSO per volt
Model 343	$\leq \pm 0.08\%$ FSO per volt
Output Signal	
Model 243	0-5 VDC
Model 243 w/DM options	0-10 VDC (requires min 15VDC supply)
Model 343	4 to 20 mA
Circuit Protection	Reverse polarity protected. Varistor protected across the input leads for surges above 40VDC and currents to 8 Amps peak with a pulse width of 1 mSec.
Insulation Resistance	1000 MegOhms at 50VDC
Response Time	$\leq 5$ mSec
Electrical Connection	DIN plug 43650

	Model 243	Model 343
Pin 1	+Power	+Power / +Signal
Pin 2	+Signal	-Power / -Signal
Pin 3	Common	No connection
Ground Spade	Case Ground	Case Ground

Mating connector sold separately

#### MECHANICAL

Proof Connection	1/4" NPT female
Proof Pressure	1.5X FSPR or 25K PSI, whichever is less
Burst Pressure	5X FSPR or 30K PSI, whichever is less
Pressure Cavity Volume	0.07 cubic inches
Mounting	May be supported by process piping
Materials of Construction	
Wetted Parts	15-5PH Stainless Steel
Housing	304 stainless steel
Weight	10 oz.

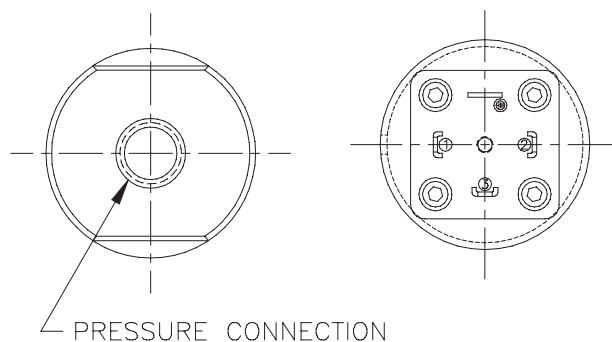
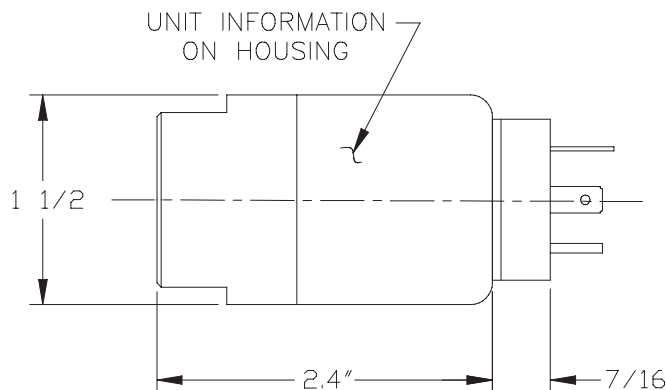
#### OPTIONS

Codes	
DH	Special Pressure Range
DM	Modified output (0-10 VDC)
NH	Customer Specified ID
WG	G1/4" (F) pressure port
ZU	6 feet integral cable connection

#### ACCESSORIES

Adapter for 1/4" NPT (male thread)  
 Adapter for G1/2" (male thread)  
 Adapter for G1/4" (male thread)  
 Digital Indicator  
 Mating Electrical Assembly  
 Mating Electrical Connector  
 Protective Cover

Note: Vented gage units should only be installed in environments that allow the breather to remain dry and free from contamination. Application of some available options may affect standard performance. Consult your Viatran Representative for details.



### THE PRESSURE MEASUREMENT FAMILY.



CALL 1-800-688-0030, EXT 512 FOR  
 DETAILS ABOUT THE ENTIRE FAMILY